PV1000

PowerVent® Powered Subwoofer

Boston

BostonAcoustics.com

Important Safety Instructions

WARNING: To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

1. **Read Instructions:** All the safety and operating instructions should be read before the product is operated.

2. **Retain Instructions:** The safety and operating instructions should be retained for future reference.

3. **Heed Warnings:** All warnings on the product and in the operating instructions should be adhered to.

4. **Follow Instructions:** All operating and use instructions should be followed.

5. **Water and Moisture:** The product should not be used near water—for example, a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

6. **Carts and Stands:** The product should be used only with a cart or stand that is recommended by the manufacturer. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

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7. **Wall- or Ceiling-Mounting:** The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

8. **Ventilation:** The product should be situated so that its location or position does not interfere with its proper functioning. For example, the product should not be situated on a bed, sofa, rug, or similar surface that may obstruct the heat sink surfaces; nor placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air near the heat sink surfaces.

9. **Heat:** The product should be situated away from heat sources such as radiators, stoves, or other products that produce heat.

10. **Power Sources:** The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.

11. **Grounding or Polarization:** This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

12. **Power Cord Protection:** Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords and plugs, convenience receptacles, and the point where they exit from the product.

13. **Cleaning:** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

14. **Nonuse Periods:** The power cord should be unplugged from the outlet when left unused for long periods of time.

15. **Object and Liquid Entry:** Care should be taken so that objects do not fall into and liquids are not spilled into the inside of the product.

16. **Lightning:** For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power line surges.

17. **Damage Requiring Service:** The product should be serviced if any of the following events occur:

A. The power supply cord or the plug has been damaged;

B. Objects have fallen or liquid has been spilled into the product;

C. The product has been exposed to rain;

D. The product does not appear to operate normally or exhibits a marked change in performance; or

E. The product has been dropped or the enclosure damaged.

F. When the product exhibits a distinct change in performance - this indicates a need for service.

18. **Servicing:** The user should not attempt to service the product beyond what is described in the operating instructions. For all other servicing, consult your dealer or contact Boston Acoustics.

19. Overloading: Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

20. Accessories: Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

21. Replacement Parts: When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22. Safety Check: Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

Regulatory Compliance Statements

American Users:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

Canadian Users:

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.
Caution! Disconnect power before servicing.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe B prescrites dans le règlement sur le brouillage radioélectrique édicté par Industrie Canada.
Attention! Couper le courant avant'entretien.

Declaration of Conformity
Konformitätserklärung
Déclaration de Conformité
Declaración de Conformidad
Verklaring de Overeenstemming
Dichiarazione di Conformità

We/Wir/Nous/WIJ/Noi:

Boston Acoustics, Inc.
300 Jubilee Drive Peabody, MA 01960 U.S.A.

declare under our sole responsibility that the product

PV1000

to which this declaration relates, is in conformity with the following standards or other normative documents: auf das sich diese Erklärung bezieht, mit der/den folgenden Norm(en) oder Richtlinie(n) übereinstimmt: auquel se réfère cette déclaration est conforme à la (aux) norme(s) ou au(x) document(s) normatif(s): al que se refiere esta declaración es conforme a la(s) norma(s) u otro(s) documento(s) normativo(s): waarnaar deze verklaring verwijst, aan de

volende noem(en) of richtlijn(en) beantwoordt: a cui si riferisce questa dichiarazione è conforme alla/e sehuente/i norma/o documento/i normativo/i:

European Users:

This equipment has been tested and found to comply with the following European directive:

(i) EMC Directive 89/336/EEC amending directive 92/31/EEC 93/68 EEC as per

EN 50081-1: 1992 according to
EN55013: 1990 Class B

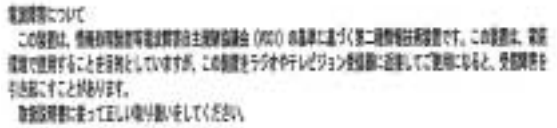
EN50082-1: 1997 according to
EN61000-4-2: 1995
EN61000-4-3: 1997
EN61000-4-4: 1995

(ii) Low Voltage Directive (Safety) 72/23/EEC as per EN60065: 1993

Japanese Users:

This equipment is in the Class 2 category (Information Technology Equipment to be used in a residential area or an adjacent area thereto) and conforms to the standards set by the Voluntary Control Council for Interference by Information Technology Equipment aimed at preventing radio interference in such residential areas.

When used near a radio or TV receiver, this equipment may become the cause of radio interference. Read the instructions for correct handling.



Australian and New Zealand Users:

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to the Australian/New Zealand standard AS/NZS 3548 set out by the Spectrum Management Agency.

Caution! Disconnect power before servicing.

Specifications

Frequency Response (±3dB)	22–150Hz
Subwoofer Amplifier Power	1000 watts continuous, 4Ω <0.5% THD, 850 watts, 20–150Hz
Subwoofer Crossover	50–150Hz 24dB/octave low-pass; 90Hz, 6dB/octave high-pass
Crossover Bypass	Yes
Bass Unit	10" (250mm) DCD™ down-firing
Passive Radiator	10" (250mm) rear-firing
Dimensions (HxWxD)	14¾ x 11½ x 14⅛" (375 x 293 x 359mm)
Weight	40 lbs (18kg)
Finish	Cherry or black ash wood veneer

Description

The Boston PV1000 PowerVent® powered subwoofer delivers the dynamic bass foundation that is essential for lifelike reproduction of movie soundtracks and music in the home.

The key to its impressive performance is its rugged 10" bass driver with patented RadialVent™ cooling technology. This innovative design gives it tremendous power handling capability, for exceptionally clean output even at high levels. The driver's basket is made from die-cast aluminum, which keeps all the critical moving parts in precise alignment. The PV1000's bass unit is built in Boston's state-of-the-art manufacturing facility in Peabody, Massachusetts. Every one is tested as it comes off the line to be within ±1dB of the lab reference unit, an incredibly tight tolerance.

The amplifier is a special high-efficiency design with a digital tracking power supply that minimizes unwanted heat buildup. The output stage is a linear type, for excellent sound quality and high reliability. BassTrac™, a proprietary Boston-designed circuit, tracks the input signal to the subwoofer and prevents its amplifier from being driven into audible distortion. The benefit: The bass stays clean and strong at any listening level. The subwoofer has a built-in variable crossover that makes it easy to achieve a seamless blend with the main speakers, while a 24dB/octave low-pass filter prevents the subwoofer from being easily localized by ear, increasing placement flexibility. A crossover bypass position is provided for use with home theater electronics that perform their own bass management functions.

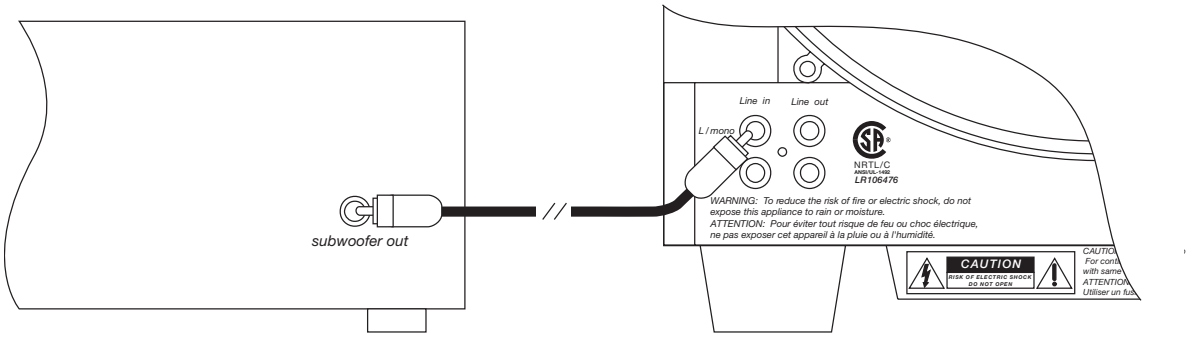
The user controls are easily accessible on the front panel, making the PV1000 as convenient to use as it is exciting to listen to.

Connecting the PV1000 to Digital 5.1 Channel Home Theater Systems

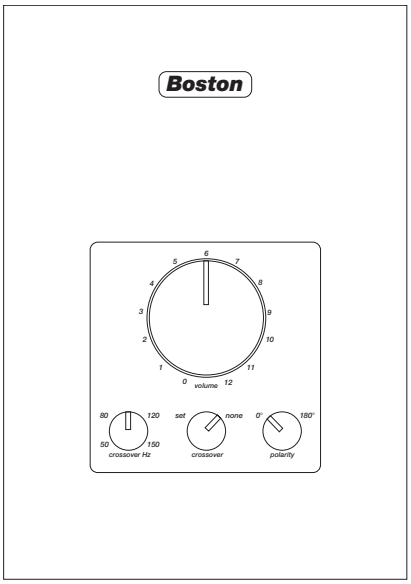
NOTE: Power is always supplied to the subwoofer electronics unless it is unplugged. Make sure your subwoofer and receiver are unplugged when making the connections.

Digital 5.1 home theater electronics dedicates one channel (the ".1" of 5.1) to reproduce the special low-frequency (LFE) information (such as explosions and thunder) contained in digitally-encoded soundtracks.

Select subwoofer-yes from your receiver's set-up menu. Hooked up this way, the receiver's amplifier is relieved of having to reproduce the difficult low bass signals that can drive the receiver into audible distortion.


Line in
Line out
L / mono
NRTL/C
LR106476
WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.
ATTENTION: Pour éviter tout risque de feu ou choc électrique, ne pas exposer cet appareil à la pluie ou à l'humidité.
CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
subwoofer out

Use an RCA cable (not included), as shown, to connect your digital receiver's subwoofer output to the PV1000's *L/mono* input.

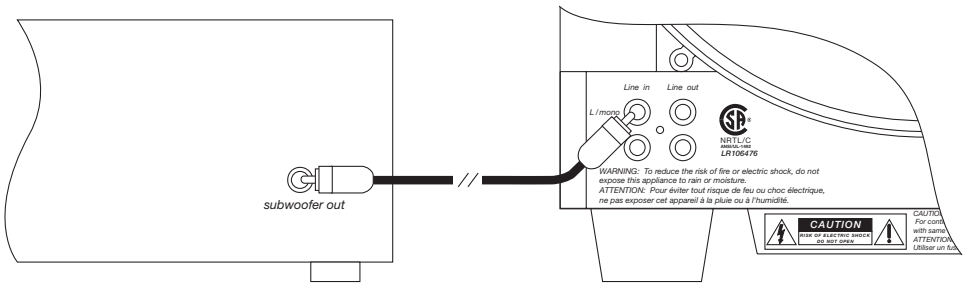


FRONT PANEL

On the front panel, set the crossover to the *none* position.

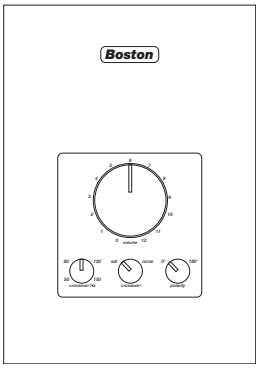
Connecting the PV1000 to Dolby® Pro Logic® Systems

For Dolby Pro Logic systems, check to see what kind of line level output your receiver or processor has. Most Pro Logic systems have a single sub out connection. Set the Center Channel Mode on the receiver to Normal. This diverts any bass in the center channel to the subwoofer, resulting in maximum system bass output.


subwoofer out
Line in
Line out
L / mono
NRTL/C
LR106476
WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.
ATTENTION: Pour éviter tout risque de feu ou choc électrique, ne pas exposer cet appareil à la pluie ou à l'humidité.
CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

Use an RCA cable (not included), as shown, to connect your electronics' subwoofer output to the PV1000's *L/mono* input.

On the front panel, set the crossover to the *set* position. See "Setting the Crossover Control" on the next page.

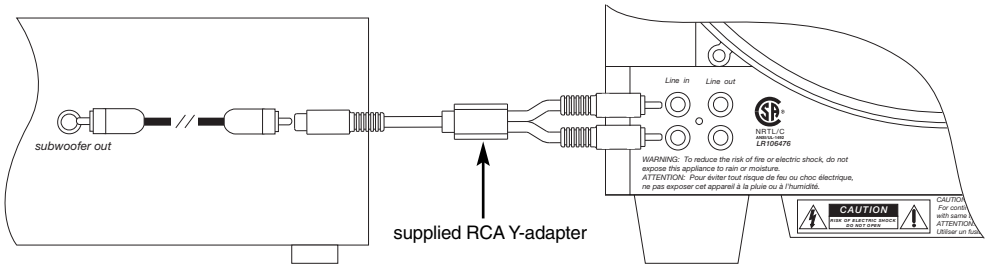


FRONT PANEL

Connecting the PV1000 using the RCA Y-adapter

Most surround sound receivers have a single "subwoofer out" connection. In some models, this jack has an unusually quiet output level. If this seems to be the case with your equipment, then we recommend using the supplied RCA Y-adapter as shown in the diagram below.

Plug a single RCA cable (not included) from the "subwoofer out" of your reciever into the single end of the Y adapter and plug the dual end of the Y adapter into the left and right inputs of the PV1000. Connected in this way under these circumstances, the PV1000 will play approximately 6dB louder at the same volume knob setting. However, the maximum output is unchanged.


subwoofer out
supplied RCA Y-adapter
Line in
Line out
NRTL/C
LR106476
WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.
ATTENTION: Pour éviter tout risque de feu ou choc électrique, ne pas exposer cet appareil à la pluie ou à l'humidité.
CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

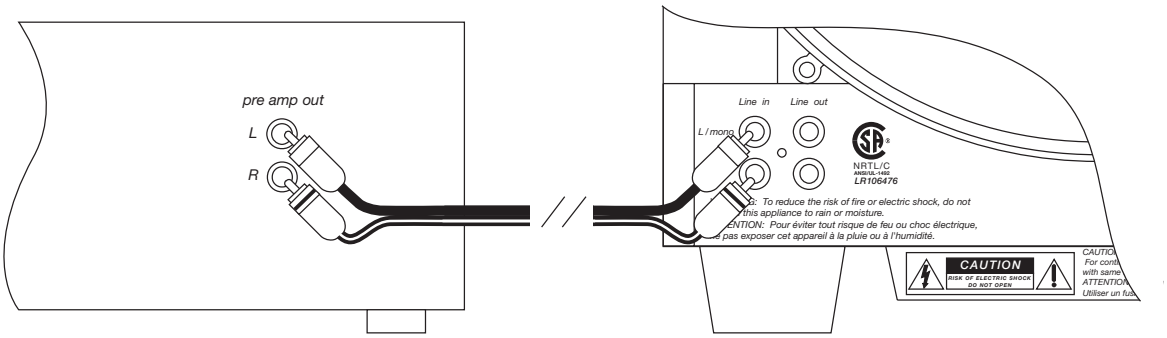
Setting the Crossover Control

As a starting point, set the crossover control on the PV1000 about 10Hz higher than the lower limit of your main speakers' bass response. Fine-tune the crossover setting by ear for the smoothest blend with your main speakers. The best setting of the crossover control will depend on speaker placement and personal preference.

Connecting the PV1000 to Stereo Systems

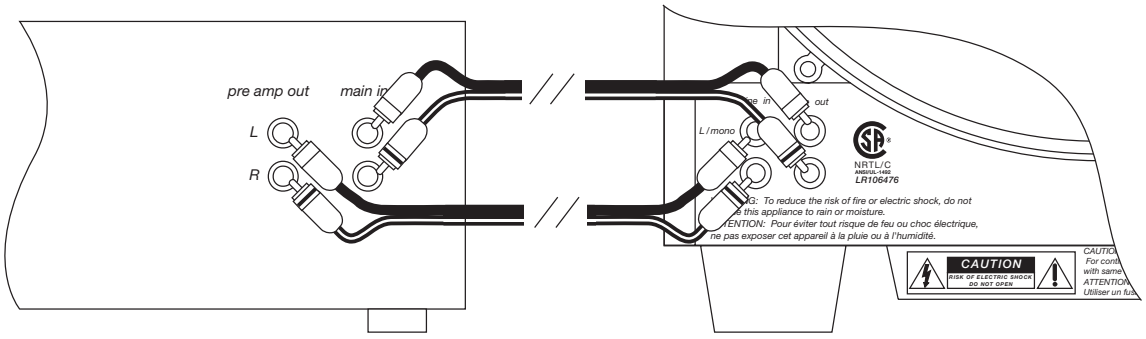
If your stereo receiver, integrated amplifier, or preamplifier has a single sub out jack, connect it to the PV1000 as described on the prior page in the Dolby Pro Logic section. Set the crossover as described above.

For electronics that have stereo preamp out jacks, connect the PV1000 as shown:



Set the crossover as described above.

If your electronics have both preamp out and main in jacks, or if you are using a separate stereo preamplifier and power amplifier, connect the PV1000 as shown:



Connected in this manner, your system makes use of the PV1000's 90Hz high-pass filter to keep the low bass signals out of your main speakers, resulting in cleaner sound. To start with, set the PV1000's crossover to 100Hz, and then adjust by ear for the smoothest blend with your main speakers. The best setting of the crossover control will depend on speaker placement and personal preference.

Controls

Front Panel

Volume: Adjusts the sound level of the subwoofer. A typical setting is around 10 o'clock.

Crossover (Hz): Adjusts the frequency of the low-pass filter for the subwoofer.

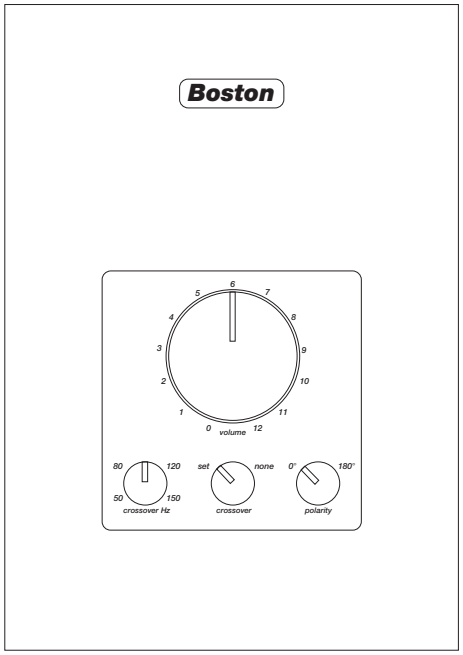
Crossover Set/None: Engages or bypasses the PV1000's built-in low-pass filter.

Polarity (0° or 180°): Selects regular (0°) or inverted (180°) polarity for the subwoofer. Set this switch to provide the fullest, most dynamic bass. The distinction of phase will be most audible on low-frequency percussion instruments or music with a continuously repeating bass line.

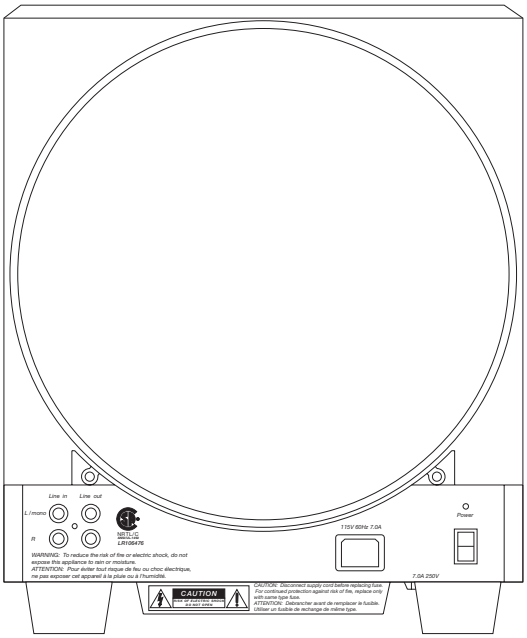
Rear Panel

Power off/on: Turns the PV1000 on and off. Because of its amplifier's high efficiency, the PV1000 may be left in the *on* position all the time, even when not in use. Its power consumption is minimal.

NOTE: Power is always supplied to the subwoofer electronics unless it is unplugged.



FRONT PANEL

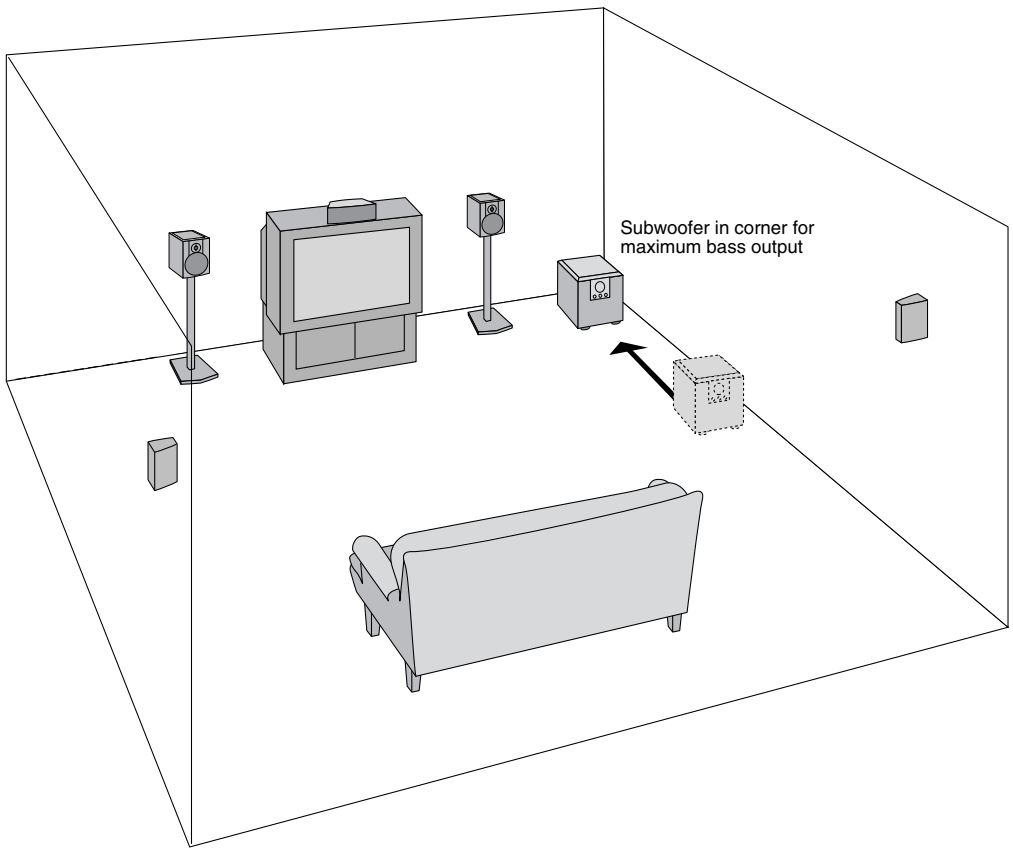


REAR PANEL

Placement

Place the subwoofer next to a wall or in a corner near your main speakers. Typically, the sound is best when the subwoofer is within 15 feet (5m) of the main speakers. However, the sharp 24dB/octave crossover roll-off permits placement farther from the main speakers if necessary. Since the ear is unable to localize the low frequencies of the subwoofer, the bass still appears to come from the main speakers. In most cases, the subwoofer may be placed anywhere in the listening room.

The level of bass output from the subwoofer will vary at different positions in a room. When placed near walls, its loudness is emphasized. Corner placement provides the most bass output, while placement near only one wall will provide somewhat less bass. Placement completely away from walls may produce too little bass. Regardless of how you place the subwoofer, you can adjust the subwoofer's level with its front panel level control. If you move the subwoofer, recheck the setting of the polarity switch. Use the setting that yields the louder and more dynamic sound.



Limited Warranty

For one year from the date of purchase, Boston Acoustics will repair for the original owner any defect in materials or workmanship that occurs in normal use of the subwoofer, without charge for parts and labor.

Your responsibilities are to use the system according to the instructions supplied, to provide safe and secure transportation to an authorized Boston Acoustics service representative, and to present proof of purchase in the form of your sales slip when requesting service.

Excluded from this warranty is damage that results from abuse, misuse, accidents, shipping, or repairs or modifications by anyone other than an authorized Boston Acoustics service representative.

This warranty is void if the serial number has been removed or defaced.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If Service Seems Necessary

First, contact the dealer from whom you purchased the speakers. If that is not possible, write to:

Boston Acoustics, Inc. 300 Jubilee Drive Peabody, MA 01960 U.S.A.

We will promptly advise you of what action to take. If it is necessary to return your speaker to the factory, please ship it prepaid. After it has been repaired, we will return it freight prepaid in the U.S.A. and Canada.

Boston *Acoustics*

www.bostonacoustics.com

300 Jubilee Drive
Peabody, MA 01960 U.S.A.
978.538.5000

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